

USAF INSTITUTE FOR NATIONAL SECURITY STUDIES ACADEMIC YEAR 2004-2005/FY05 RESEARCH REPORT

INTRODUCTION

The Institute for National Security Studies (INSS) promotes national security research for the Department of Defense within the military academic community and supports the Air Force national security education program. Its vision is to be the Air Force institute of choice for promoting, coordinating, and disseminating vital national security research that influences Department of Defense policy development. During 2004-2005, primary researchers in INSS included Director, Dr. James Smith; Deputy Director, Maj William Thomas; and National Defense Fellow, Lt Col Cynthia Grey.

RESEARCH ACHIEVEMENTS

INSS continues to provide timely research to agencies throughout the DoD. During 2004-2005 the Institute oversaw the completion of 73 projects involving 88 researchers (18 of these were USAFA projects involving 17 faculty and six cadet researchers), and initiated 62 new projects involving 87 researchers (13 USAFA projects with 16 faculty and 13 cadet researchers) in the areas of arms control and strategic security, counterproliferation and force protection, homeland defense and combating terrorism, air and space issues and planning, information operations and warfare, and regional and emerging national security issues.

INSS' role in disseminating knowledge was again significantly during 2004-2005. The results of the FY2004 research program were presented at the Institute's annual Research Results Conference in Washington DC in October 2004, and in May 2005 it conducted its annual Research Agenda workshop to develop its plans for FY06. August 2004 saw the first INSS workshop on behalf of NORAD/NORTHCOM as INSS gathered a group of experts at USAFA to discuss NORAD Extension and Expansion. That same month INSS hosted a Defense Threat Reduction Agency workshop at USAFA discussing "Crossing the Threshold of Nuclear Conflict." INSS staff participated actively in September 2004 in the Naval Postgraduate School Monterey Security Symposium, presenting a paper and a panel discussion. The INSS staff also supported the national combined meeting of the American Political Science Association International Security and Arms Control Section and the International Studies Association International Security Studies Section by arranging the entire program for the October 2004 conference. In addition, both Dr Smith and Lt Col Thomas, presented their own research at panels of the International Studies Association and the Inter-University Seminar on Armed Forces and Society.

Of particular note, Lt Col Thomas researched and wrote an article proposing a strategic direction for the United States to follow in post-election Iraq while deployed to the Multi-National Security Transition Command-Iraq in Baghdad in January 2005.

RESEARCH HIGHLIGHTS

This report highlights INSS accomplishments in two important areas: strategic security/arms control and homeland defense/combating terrorism. On strategic security and arms control, INSS hosted a workshop for the Defense Threat Reduction Agency examining the consequences of the next use of a nuclear weapon, co-hosted a workshop with the Naval Postgraduate School on strategic strike, sponsored a panel on nuclear transformation, and published three Occasional Papers on India's strategic doctrine, perspectives on arms control, and North Korean nuclear development. INSS staff also edited an Ambassador's memoir on the Intermediate Nuclear Forces Treaty negotiations, authored a chapter on nuclear transformation, and authored a major reference book on arms control and disarmament. In the area of homeland defense and combating terrorism, INSS helped launch the Colorado Homeland Security Institute and continued playing an active role in the NORTHCOM/NORAD Homeland Security and Defense Education Consortium. The Institute hosted a workshop for NORTHCOM exploring continental defense issues, and it contributed to the Denver University Summer Seminar on Homeland Defense. INSS published an Occasional Paper suggesting linked strategies for dealing with insurgents, terrorists, militias, and organized criminal groups, and the staff authored a journal article suggesting a strategy for dealing with anti-Iraq forces after the January elections, and a book chapter suggesting a strategic framework for responding to and eventually deterring terrorism.

RESEARCH IMPACT

All INSS research is sponsored research directly in support of DoD organizations. The sponsor organizations participate in topic development, they have input to the research planning and approve the project proposals, and in many cases offer access and mentoring throughout the research process. They also receive the completed research reports, and in some cases request and receive briefings from the researchers. In this way, all INSS research has some degree of impact within the policy community. Often INSS research has broader and longer-lived impact. For just two examples, this year the earlier INSS research of Lt Col (S) Troy Thomas was consolidated and applied in his Defense Intelligence Agency book *Beneath the Surface: Intelligence Preparation of the Battlespace for Counterterrorism*. One US Army division took 100 copies of this book with them as they deployed to Iraq. Also, last year's work on *The Worried Well*, how military commanders need to anticipate and respond to the psychological effects of bioterrorism, by Dr Fran Pilch is being incorporated in USAF CONOPS for bioterror, and all installation commanders are referred to her work during their training.

INSS has also furthered its goal of supporting military education to create more strategic-minded thinkers at all levels in the military. In addition to supporting research by faculty members at military academies and professional schools, INSS sponsored research by eight National Defense Fellows, 10 Air War College non-resident students, 12 Naval Postgraduate School students, five Air Force Institute of Technology students, and 19 Air Force Academy cadets. These efforts increase the ability of military officers to develop strategic knowledge and perspective that will grow throughout their careers.

INSS OCCASIONAL PAPERS PUBLISHED

- #54 *India's Emerging Security Strategy, Missile Defense, and Arms Control*, Stephen F. Burgess, June 2004.
- #55 *Perspectives on Arms Control*, Michael O. Wheeler, James M. Smith, and Glen M. Segell, July 2004.
- #56 *Carrot, Stick, or Sledgehammer: US Policy Options for North Korean Nuclear Weapons*, Daniel J. Orcutt, August 2004.
- #57 *Armed Groups: A Tier-One Security Priority*, Richard H. Shultz, Douglas Farah, and Itamara V. Lochard, September 2004.
- #58 *Turbulent Arena: Global Effects against Non-State Adversaries*, Troy S. Thomas and William D. Casebeer, June 2005.
- #59 *Israel's Attack on Osiraq: A Model for Future Preventive Strikes?* Peter S. Ford, July 2005.
- #60 *The Art of Peace: Dissuading China from Developing Counter-Space Weapons*, David O. Meteyer, August 2005.
- #61 *Biowarfare Lessons, Emerging Biosecurity Issues, and Ways to Monitor Dual-Use Biotechnology Trends in the Future*, Helen E. Purkitt, September 2005.

STAFF PUBLICATIONS

SMITH, J. "Tale of Two Countries: Russia, North Korea, and the Present and Future of Arms Control, Nonproliferation, and Counterproliferation in United States Policy," *Perspectives on Arms Control*, USAFA: INSS Occasional Paper #55, July 2004.

SMITH, J. "Aum Shinrikyo" *Weapons of Mass Destruction: An Encyclopedia of Worldwide Policy, Technology, and History*, Santa Barbara, CA: ABC-CLIO, 2005.

SMITH, J. and Larsen, J. *Historical Dictionary of Arms Control and Disarmament*, Landham, MD: Scarecrow, 2005.

SMITH, J. "A Strategic Response to Terrorism," *After 9/11: Terrorism and Crime in a Globalised World*, Halifax, Nova Scotia: University of New Brunswick Centre for Conflict Studies and Dalhousie University Centre for Foreign Policy Studies, 2005).

SMITH, J. "The New Strategic Framework, the New Strategic Triad, and the Strategic Military Services," *Nuclear Transformation: The New US Nuclear Doctrine*, New York: Palgrave MacMillan, 2005.

SMITH, J. "Strategic Leader Development and the Air War College," *Educating Strategic Leaders in an Age of Uncertainty*, New York: Smith-Richardson Foundation, 2005.

SMITH, J. "Educating International Security Practitioners: The Role of Research Centers and Professional Outreach Programs," *American Defense Policy*, 8th Edition, Baltimore: Johns Hopkins University Press, 2005.

THOMAS, W. "Outthinking the AIF," *Strategic Insights*, January 2005.

STAFF PRESENTATIONS

SMITH, J. "Homeland Security Strategy," Denver University Sondermann Summer Seminar on Globalization and Security, 2004 Seminar on Homeland Security, Vail, CO, 14 August 2004.

SMITH, J. "Dissuasion in Strategy: Issues and Possibilities," Monterey Security Symposium, Monterey, CA, 8 September 2004.

SMITH, J. "Strategic Strike: Yesterday, Today, and Tomorrow," Monterey Security Symposium, Monterey, CA, 9 September 2004.

SMITH, J. "Maj Gen Robert E. Linhard, INSS, and USAF Leader Development," Generals Robert E. Linhard and George "Abe" Lincoln Legacy Workshop, Washington DC, 27 October 2004.

SMITH, J. "The New Strategic Framework, the New Strategic Triad, and the Strategic Military Services," International Studies Association, Honolulu, HI, 4 March 2005.

SMITH, J. "The Future of Arms Control," International Studies Association, Honolulu, HI, 4 March 2005.

THOMAS, W. "The Cultural Identity of the US Air Force," Inter-University Seminar on the Armed Forces and Society, Toronto, Ontario, 2 October 2004.

THOMAS, W. "Organizational Learning within Special Operations Forces: Setting the Standard for Defense Transformation," Inter-University Seminar on the Armed Forces and Society, Toronto, 2 October 2004.

THOMAS, W. "Opportunities for Regional Security Access in Asia," International Studies Association, Honolulu, 2 March 2005.

THOMAS, W. "American Public Diplomacy in Thailand: Garnering Support for the Fight against Terrorism," International Studies Association, Honolulu, HI, 3 March 2005.

AY 05-06/FY 06 RESEARCH

As we report results from the completed year, we have kicked off AY 05-06/FY 06 with 51 projects as outlined below:

Ackerman, John

ACSC/DEI

"Defining the Interrelationship between National Security and Sustainability"

Albertson, Trevor USAFA/DFPS
“Multilateral Organization, Cooperation, and Execution of Ballistic Missile Defense: Implications for US National Security”

Basha, Lawrence Naval Postgraduate School
“The Strategic Challenge of Using US Special Operations Forces Outside of War Zones in Ungoverned and Failed States”

Beedle, Tara AFIT/University of Texas, Austin
“Korean Reunification and Integration: Economic and Security Implications for Northeast Asia”

Bergmann, Jeffrey USMA
Oxendine, Chris USMA
“What Non-Lethal Weapons Capabilities Does DoD Require to Successfully Conduct Assigned Homeland Defense and Civil Support Missions?”

Boyce, Brian Naval Postgraduate School
“Democratic Civil-Military Relations and the New Bosnian Military”

Burgess, Stephen Air War College
“US Engagement with India and Pakistan on Missile Defense and Arms Control, and Radical Islam in South Asia”

Carey, Richard Naval Postgraduate School
“Taiwan-China Reunification Issues and the Taiwan Relations Act”

Clark, Stephen SDE Fellow, Harvard
“Exit Strategy Defined: Is It a Useful National Security Policy and Strategy Concept?”

Clarke, Paul US Northern Command
“The Hong Kong Return to China Model and Taiwan”

Cook, Martin USAFA/DFPY
[Hashmi, Sohail Mt Holyoke College]
[Johnson, James Turner Rutgers University]
[Kelsay, John Florida State University]
“What Are Islamic Attitudes toward the Legitimacy of International Law and International Agreements?”

Craig, Susan Foreign Military Studies Office
“China’s Threat Perceptions”

Derdzinski, Joseph USAFA/DFPS
“Casting an Urban Net: A Study of Political Violence and Urban Infrastructure”

Dietzman, Brian USMA
"Special Interest Aliens: Both North and South"

Draper, Stephen Naval Postgraduate School
"Case Studies of Explosive Ordnance Disposal Support of Special Forces C-CBRNE Operations in Britain"

Dunne, Justin Naval Postgraduate School
"Baluch Nationalism and Pakistan's War on Terror"

Feldman, Robert Foreign Military Studies Office
"The Use of Cybercafes in Africa to Support Terrorist Activities"

Fesler, Pete Naval Postgraduate School
"The Indian Air Force": Evolution of Tactics and Training"

Fischer, William Naval Postgraduate School
"Air Force Leadership and Training Assets for Stabilization and Reconstruction"

Ford, Christopher Naval Postgraduate School
"Strategic Challenges of China's Military and Economic Transformations"

Franzen, Daniel SDE Fellow, Oak Ridge National Laboratory
"What Benefits Does the US Derive from the Cooperative Threat Reduction Program?"

Funk, David Air War College
"Post Conflict Reconstruction"

Gilbertson, Michael Joint Military Intelligence College
"Arms Control as an Instrument of US National Power"

Henk, Dan Air War College
"Examine How Critical Regional Environmental Issues might be Used to Promote the Combatant Commander Theater Security Cooperation Programs (TSCP)"

Jasparro, Christopher Asia-Pacific Center for Security Studies
"Strategic Implications of Human Security Issues in East Asia: Case Study of Mongolia"

Jebb, Cindy USMA
 Abb, Madelfia USA ROTC, Seton Hall University
 Hummel, Laurel Army War College
"Combating Terrorism, Human Security, and Good Governance: A Living Systems Approach"

Leweling, Tara Naval Postgraduate School
"Virtual Organizing during Ukraine's Orange Revolution: Implications for US National Security"

Leweling, Tara Naval Postgraduate School
"Emerging Coalition Partners for US Information Operations"

Lucas, Geoffrey AFIT/JFK School, Harvard
"Security Dynamics of Missile Defense in Northeast Asia"

McKinney, Evan Naval Postgraduate School
"How Will Current Chinese Domestic Policy toward the Predominantly Islamic Uighur Minority Affect Regional Stability in Asia and US National Security"

Mason, Edward Naval Postgraduate School
"The Use of Exiles in Support of US Foreign Policy Objectives in the War on Terror"

Madera, Jose School of Advanced Military Studies
"A Geospatial Information Systems Analysis of Human, Geographic, and Resource Factors in Colombia's Counterinsurgency"

Maye, Diane Naval Postgraduate School
"Measures of Effectiveness: Israel's Counter-Terrorism Strategy"

Mihalka, Michael US Army Command and General Staff College
 [Wilcox, Mark US Army Command and General Staff College]
 [Tarble, Burke US Army Command and General Staff College]
"The Great Game Redux: The Geopolitics of Petrochemicals and Counterterrorism in Central Asia"

Oluic, Steven USMA
"The Hidden Front in the GWOT: Radical Islam, al Qaeda, and the Balkans"

Pak, Jin USMA
 Ustler, Christopher USMA
"Is the Development of an Asian Security Community Beneficial to the United States?"

Pultz, Christopher HQ USA/G2
"Sources and Demographics of Anti-Japanese Sentiment in China"

Putbrese, Daniel SDE Fellow, Atlantic Council of the United States
"Improving Intelligence Sharing to Combat Terrorism"

Regen, Thomas USAFA/DFMI
 [12 USAFA Cadets]
"The Utility of Demonstrations of Cyber Force as a Crisis Management Tool"

Sanchez, Darryl Air War College
"Establishing Metrics for the Global War on Terrorism"

Schaub, Michael USAFA/DFPS
“Illegal Immigrants and the CONUS: The Assessed Threat and Potential USNORTHCOM Response”

Sim, Jae USAF Special Operations School
“Sino-Japanese Relations: The Clash of Two Titans”

Smith, James USAF INSS
“International Security Negotiations/Agreements and Military Operations”

Smith, James USAF INSS
“Homeland Security and Homeland Defense: Definitions, Roles, Seams, and Gaps”

Smith, James USAF INSS
[Thomas, William USAF INSS]
“Deterring WMD Terrorism”

Smith, James USAF INSS
“Strategic Culture and Violent Non-State Actors”

Stickney, Michael SDE Fellow, Oak Ridge National Laboratory
“Organizing the Science and Technology Community to Counter CBRNE Weapons of Mass Destruction”

Ulrich, Marybeth Army War College
[Stodter, Dean Army War College]
“The Development of Democratic Civil-Military Relations in the New Afghani Armed Forces”

Umstead, Robert School of Advanced Military Studies
Butler-Smith, Alice School of Advanced Military Studies
“Managing the Risks of a Nuclear Armed Iran: A Systematic Operational Design Approach”

Wirsing, Robert Asia-Pacific Center for Security Studies
Rolfe, James Asia-Pacific Center for Security Studies
Watson, Virginia Asia-Pacific Center for Security Studies
“Trans-Boundary River Waters Conflict in South Asia: A Study of Domestic Political Constraints on Interstate Water Resource Cooperation”

Wrona, Richard USMA
“Confronting Hizballah: Toward a More Coherent US Policy”